

Table 1
Surfacewater Analytical Data - Region 6
Upper Animas River

Analyte	CAS.NO	Units	Sample ID							ADWS-ARP-150808-11	ADWS-IT1-150808-11
			Date							8/8/2015	8/8/2015
			Review Status							Preliminary	Preliminary
Metals, Dissolved											
Aluminum, Dissolved	7429-90-5	ug/L	--			8358	3348	5000		< 24 U	< 24 U
Antimony, Dissolved	7440-36-0	ug/L	--	6	129					0.40 U	0.40 U
Arsenic, Dissolved	7440-38-2	ug/L		10	2.15			100	200	0.58 J	0.37 U
Barium, Dissolved	7440-39-3	ug/L		2000	34900					49	50
Beryllium, Dissolved	7440-41-7	ug/L		4	100	340	150	100	100	0.15 U	0.15 U
Cadmium, Dissolved	7440-43-9	ug/L		5	65	2.88	0.72	10	50	0.043 U	0.043 U
Calcium, Dissolved	7440-70-2	ug/L	--							61000	60000
Chromium, Dissolved	7440-47-3	ug/L		100		972	126	100	1000	1.0 U	1.0 U
Cobalt, Dissolved	7440-48-4	ug/L			3130			50	1000	0.12 U	0.12 U
Copper, Dissolved	7440-50-8	ug/L		1300	8580	25	16	200	500	1.3	1.4
Iron, Dissolved	7439-89-6	ug/L	--		601000					< 17 U	< 17 U
Lead, Dissolved	7439-92-1	ug/L		15		130	5	5000	100	0.17 J	0.15 J
Magnesium, Dissolved	7439-95-4	ug/L	--							8100	8100
Manganese, Dissolved	7439-96-5	ug/L			2550	3710	2050	200		2.9	3
Mercury, Dissolved	7439-97-6	ug/L	--	2		104	0.77		10	< 0.08 U	< 0.08 U
Nickel, Dissolved	7440-02-0	ug/L			7870	813	90	200	1000	1.2	1.2
Potassium, Dissolved	7440-09-7	ug/L	--							2200	2100
Selenium, Dissolved	7782-49-2	ug/L		50	4290	20	5	130	250	0.58 U	0.58 U
Silver, Dissolved	7440-22-4	ug/L			837	9.9	n/a			0.10 U	0.10 U
Sodium, Dissolved	7440-23-5	ug/L	--							14000	13000
Thallium, Dissolved	7440-28-0	ug/L		2	34.3					0.10 U	0.15 J
Vanadium, Dissolved	7440-62-2	ug/L			712			100	100	0.30 U	0.30 U
Zinc, Dissolved	7440-66-6	ug/L			292000	290	219	2000	25000	2.8 U	2.8 U
Metals, Total											
Aluminum, Total	7429-90-5	ug/L	--			8358	3348	5000		4200	2800
Antimony, Total	7440-36-0	ug/L	--	6	129					1.5	1.1
Arsenic, Total	7440-38-2	ug/L		10	2.15			100	200	11	7.6

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Barium, Total	7440-39-3	ug/L		Barium, Total	7440-39-3	ug/L		2000	34900		
Beryllium, Total	7440-41-7	ug/L		Beryllium, Total	7440-41-7	ug/L		4	100	340	150
Cadmium, Total	7440-43-9	ug/L		Cadmium, Total	7440-43-9	ug/L		5	65	2.88	0.72
Calcium, Total	7440-70-2	ug/L	--	Calcium, Total	7440-70-2	ug/L	--				
Chromium, Total	7440-47-3	ug/L		Chromium, Total	7440-47-3	ug/L		100		972	126
Cobalt, Total	7440-48-4	ug/L		Cobalt, Total	7440-48-4	ug/L			3130		
Copper, Total	7440-50-8	ug/L		Copper, Total	7440-50-8	ug/L		1300	8580	25	16
Iron, Total	7439-89-6	ug/L	--	Iron, Total	7439-89-6	ug/L	--		601000		
Lead, Total	7439-92-1	ug/L		Lead, Total	7439-92-1	ug/L		15		130	5
Magnesium, Total	7439-95-4	ug/L	--	Magnesium, Total	7439-95-4	ug/L	--				
Manganese, Total	7439-96-5	ug/L		Manganese, Total	7439-96-5	ug/L			2550	3710	2050
Mercury, Total	7439-97-6	ug/L	--	Mercury, Total	7439-97-6	ug/L	--	2		104	0.77
Nickel, Total	7440-02-0	ug/L		Nickel, Total	7440-02-0	ug/L			7870	813	90
Potassium, Total	7440-09-7	ug/L	--	Potassium, Total	7440-09-7	ug/L	--				
Selenium, Total	7782-49-2	ug/L		Selenium, Total	7782-49-2	ug/L		50	4290	20	5
Silver, Total	7440-22-4	ug/L		Silver, Total	7440-22-4	ug/L			837	9.9	n/a
Sodium, Total	7440-23-5	ug/L	--	Sodium, Total	7440-23-5	ug/L	--				
Thallium, Total	7440-28-0	ug/L		Thallium, Total	7440-28-0	ug/L		2	34.3		
Vanadium, Total	7440-62-2	ug/L		Vanadium, Total	7440-62-2	ug/L			712		
Zinc, Total	7440-66-6	ug/L		Zinc, Total	7440-66-6	ug/L			292000	290	219
General											
General											
Alkalinity		mg/L	--	Alkalinity		mg/L	--				
pH	pH	SU	--	pH	pH	SU	--				
Total Suspended Solids		mg/L	--	Total Suspended Solids		mg/L	--				
Total Dissolved Solids		mg/L	--	Total Dissolved Solids		mg/L	--				
Total Hardness	Thardness	mg/L	--	Total Hardness	Thardness	mg/L	--				

Bold - Bolded results identify a detected value.

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J - Data Estimated qualifier (also applied to all data less than PQL) ~~Data Estimated qualifier and MDL~~ applied to all data less than PQL, greater than or equal to MDL

MDL - Method Detection Limit

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PQL - Practical Quantitation Limit, also known as reporting limit ~~PQL - Practical Quantitation Limit, also known as reporting limit~~

U - Analyte not detected at or above MDL qualifier

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D - Diluted value qualifier.

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SU - Standard Units (pH)

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mg/L - Parts per million (milligrams per liter). Solids equivalent = mg/Kg

ug/L - Parts per billion (micrograms per liter). Solids equivalent = ug/Kg

Highlighted cells denote results that exceed the lowest benchmark value

F1 - MS and/or MSD recovery is outside acceptance limits

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HF - Field parameter with a holding time of 15 minutes. Test performed by lab by client's request

Table 1
Surfacewater Analytical Data - Region 6
Upper Animas River

Analyte	CAS.NO	Units	Sample ID			ADWS-ARP-150808-11	ADWS-IT1-150808-11	ADWS-IT2-150808-11	FWS-ARP2-150808-11		
			Date			8/8/2015	8/8/2015	8/8/2015	8/8/2015		
			Review Status		Preliminary	Preliminary	Preliminary	Preliminary	Preliminary		
Irrigation Livestock											
Metals, Dissolved											
Aluminum, Dissolved	7429-90-5	ug/L	--	5000		< 24 U	< 24 U	< 24 U	< 24 U		
Antimony, Dissolved	7440-36-0	ug/L	--			0.40 U	0.40 U	0.40 U	0.40 U		
Arsenic, Dissolved	7440-38-2	ug/L		100	200	0.58 J	0.37 U	0.50 J	0.38 J		
Barium, Dissolved	7440-39-3	ug/L				49	50	55	56		
Beryllium, Dissolved	7440-41-7	ug/L		100	100	0.15 U	0.15 U	0.15 U	0.15 U		
Cadmium, Dissolved	7440-43-9	ug/L		10	50	0.043 U	0.043 U	0.043 U	0.043 U		
Calcium, Dissolved	7440-70-2	ug/L	--			61000	60000	57000	66000		
Chromium, Dissolved	7440-47-3	ug/L		100	1000	1.0 U	1.0 U	1.0 U	1.0 U		
Cobalt, Dissolved	7440-48-4	ug/L		50	1000	0.12 U	0.12 U	0.12 U	0.12 J		
Copper, Dissolved	7440-50-8	ug/L		200	500	1.3	1.4	1.6	1.4		
Iron, Dissolved	7439-89-6	ug/L	--			< 17 U	< 17 U	< 17 U	< 17 U		
Lead, Dissolved	7439-92-1	ug/L		5000	100	0.17 J	0.15 J	0.25 J	0.14 J		
Magnesium, Dissolved	7439-95-4	ug/L	--			8100	8100	7800	8300		
Manganese, Dissolved	7439-96-5	ug/L		200		2.9	3	5.6	1.7 J		
Mercury, Dissolved	7439-97-6	ug/L	--		10	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U		
Nickel, Dissolved	7440-02-0	ug/L		200	1000	1.2	1.2	1.3	1.4		
Potassium, Dissolved	7440-09-7	ug/L	--			2200	2100	2300	2200		
Selenium, Dissolved	7782-49-2	ug/L		130	250	0.58 U	0.58 U	0.58 U	0.58 U		
Silver, Dissolved	7440-22-4	ug/L				0.10 U	0.10 U	0.10 U	0.10 U		
Sodium, Dissolved	7440-23-5	ug/L	--			14000	13000	13000	16000		
Thallium, Dissolved	7440-28-0	ug/L				0.10 U	0.15 J	0.10 U	0.10 U		
Vanadium, Dissolved	7440-62-2	ug/L		100	100	0.30 U	0.30 U	0.41 J	0.37 J		
Zinc, Dissolved	7440-66-6	ug/L		2000	25000	2.8 U	2.8 U	2.8 U	2.8 U F1		
Metals, Total											
Aluminum, Total	7429-90-5	ug/L	--	5000		4200	2800	1900	5300 F1		
Antimony, Total	7440-36-0	ug/L	--			1.5	1.1	0.73 J	1.6		
Arsenic, Total	7440-38-2	ug/L		100	200	11	7.6	4.4	11		

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Barium, Total	7440-39-3	ug/L			97	84	75	100
Beryllium, Total	7440-41-7	ug/L		100	100	0.29 J	0.20 J	0.15 U
Cadmium, Total	7440-43-9	ug/L		10	50	0.55	0.4	0.3
Calcium, Total	7440-70-2	ug/L	--		69000	67000	61000	69000
Chromium, Total	7440-47-3	ug/L		100	1000	1.7 J	1.1 J	1.0 U
Cobalt, Total	7440-48-4	ug/L		50	1000	1.3	0.95	0.68
Copper, Total	7440-50-8	ug/L		200	500	49	34	23
Iron, Total	7439-89-6	ug/L	--		15000	10000	6000	16000
Lead, Total	7439-92-1	ug/L		5000	100	230	150	81
Magnesium, Total	7439-95-4	ug/L	--		9400	9100	8400	9400
Manganese, Total	7439-96-5	ug/L		200		260	200	150
Mercury, Total	7439-97-6	ug/L	--		10	< 0.08 U	< 0.08 U	< 0.08 U
Nickel, Total	7440-02-0	ug/L		200	1000	2.1	1.8	1.4
Potassium, Total	7440-09-7	ug/L	--		3700	3200	2900	4000
Selenium, Total	7782-49-2	ug/L		130	250	0.58 J	0.58 U	0.58 U
Silver, Total	7440-22-4	ug/L			1.6	1	0.55 J	1.6
Sodium, Total	7440-23-5	ug/L	--		15000	14000	13000	17000
Thallium, Total	7440-28-0	ug/L			0.12 J	0.10 U	0.10 U	0.12 J
Vanadium, Total	7440-62-2	ug/L		100	100	10	6.9	4.3
Zinc, Total	7440-66-6	ug/L		2000	25000	180	140	110

General

Alkalinity		mg/L	--		87	94	91	88
pH	pH	SU	--		8.04 HF	8.06 HF	8.13 HF	8.10 HF
Total Suspended Solids		mg/L	--		140	93	67	170
Total Dissolved Solids		mg/L	--		290	260	260	290
Total Hardness	Thardness	mg/L	--		210	200	190	210

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mg/L - Parts per million (milligrams per liter). Solids equivalent = mg/Kg.

ug/L - Parts per billion (micrograms per liter). Solids equivalent = ug/Kg

Highlighted cells denote results that exceed the lowest benchmark value

F1 - MS and/or MSD recovery is outside acceptance limits

HF - Field parameter with a holding time of 15 minutes. Test performed by lab by client's request

Table 1
Surfacewater Analytical Data - Region 6
Upper Animas River

Analyte	CAS.NO	Units	Sample ID	FWS-FDPS-150808-11	LVW-FD-150808-11	LVW-WPI-150808-11	MWSS-ARI-150808-11	NSW-ARI-150808-11
			Date	8/8/2015	8/8/2015	8/8/2015	8/8/2015	8/8/2015
			Review Status	Preliminary	Preliminary	Preliminary	Preliminary	Preliminary
Metals, Dissolved								
Aluminum, Dissolved	7429-90-5	ug/L	--	< 24 U	390	270	< 24 U	< 24 U
Antimony, Dissolved	7440-36-0	ug/L	--	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Arsenic, Dissolved	7440-38-2	ug/L		0.76 J	0.76 J	0.76 J	0.52 J	0.62 J
Barium, Dissolved	7440-39-3	ug/L		60	81	70	57	52
Beryllium, Dissolved	7440-41-7	ug/L		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Cadmium, Dissolved	7440-43-9	ug/L		0.043 U	0.043 U	0.043 U	0.043 U	0.043 U
Calcium, Dissolved	7440-70-2	ug/L	--	66000	52000	51000	67000	58000
Chromium, Dissolved	7440-47-3	ug/L		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cobalt, Dissolved	7440-48-4	ug/L		0.14 J	0.23 J	0.18 J	0.15 J	0.12 J
Copper, Dissolved	7440-50-8	ug/L		1.6	1.7	1.5	1.6	1.5
Iron, Dissolved	7439-89-6	ug/L	--	< 17 U	220	150	< 17 U	< 17 U
Lead, Dissolved	7439-92-1	ug/L		0.20 J	0.5	0.36	0.23 J	0.15 J
Magnesium, Dissolved	7439-95-4	ug/L	--	8400	6600	6500	8600	7900
Manganese, Dissolved	7439-96-5	ug/L		1.6 J	20	3.5	4.3	5.4
Mercury, Dissolved	7439-97-6	ug/L	--	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U	< 0.08 U
Nickel, Dissolved	7440-02-0	ug/L		1.8	1.8	1.5	1.9	1.3
Potassium, Dissolved	7440-09-7	ug/L	--	2200	2500	2500	2200	2200
Selenium, Dissolved	7782-49-2	ug/L		0.58 U	0.58 U	0.58 U	0.58 U	0.58 U
Silver, Dissolved	7440-22-4	ug/L		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Sodium, Dissolved	7440-23-5	ug/L	--	16000	20000	19000	16000	12000
Thallium, Dissolved	7440-28-0	ug/L		0.10 U	0.10 U	0.15 J	0.10 U	0.10 U
Vanadium, Dissolved	7440-62-2	ug/L		0.36 J	0.73 J	0.68 J	0.30 J	0.30 U
Zinc, Dissolved	7440-66-6	ug/L		2.8 U	2.8 U	28 U	2.8 U	2.8 U
Metals, Total								
Aluminum, Total	7429-90-5	ug/L	--	5000	22000	29000	4600	2200
Antimony, Total	7440-36-0	ug/L	--	1.4	0.64 J	1.2	1.5	0.93 J
Arsenic, Total	7440-38-2	ug/L		10	14	15	11	6.1

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Barium, Total	7440-39-3	ug/L		110	370	400	110	80
Beryllium, Total	7440-41-7	ug/L		0.30 J	1.2	1.5	0.29 J	0.16 J
Cadmium, Total	7440-43-9	ug/L		0.45	0.34	0.45	0.51	0.38
Calcium, Total	7440-70-2	ug/L	--	70000	64000	67000	68000	63000
Chromium, Total	7440-47-3	ug/L		1.8 J	12	17	1.8 J	1.0 U
Cobalt, Total	7440-48-4	ug/L		1.3	8.3	10	1.3	0.78
Copper, Total	7440-50-8	ug/L		43	55	58	46	29
Iron, Total	7439-89-6	ug/L	--	14000	30000	36000	14000	8300
Lead, Total	7439-92-1	ug/L		200	240	240	210	110
Magnesium, Total	7439-95-4	ug/L	--	9600	11000	12000	9200	8700
Manganese, Total	7439-96-5	ug/L		230	530	620	230	170
Mercury, Total	7439-97-6	ug/L	--	< 0.08 U	0.089 J	< 0.08 U	< 0.08 U	< 0.08 U
Nickel, Total	7440-02-0	ug/L		2.3	12	14	2.2	1.7
Potassium, Total	7440-09-7	ug/L	--	3800	7000	8400	3600	3000
Selenium, Total	7782-49-2	ug/L		0.83 J	1.4 J	1.0 J	0.69 J	0.61 J
Silver, Total	7440-22-4	ug/L		1.4	1.6	1.5	1.5	0.80 J
Sodium, Total	7440-23-5	ug/L	--	17000	22000	21000	16000	13000
Thallium, Total	7440-28-0	ug/L		0.11 J	0.29	0.37	0.11 J	0.10 U
Vanadium, Total	7440-62-2	ug/L		10	34	46	10	5.5
Zinc, Total	7440-66-6	ug/L		160	160	170	170	130
General								
Alkalinity		mg/L	--	90	83	83	89	99
pH	pH	SU	--	8.10 HF	8.03 HF	8.02 HF	8.12 HF	8.12 HF
Total Suspended Solids		mg/L	--	150	910	1100	150	71
Total Dissolved Solids		mg/L	--	290	260	270	290	270
Total Hardness	Thardness	mg/L	--	210	210	220	210	190

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